

Tide Correctors

Tidal zoning and correctors applicable to predicted tides for the Sitka, Alaska, reference station (945-1600) were provided in the Project Instructions as amended by Change No. 1, dated September 5, 1991. The time corrector for Sheet H is +0 hr. 10 min., while the range ratio is x1.27.

HDAPS listings of the data used in generating tide corrector tables are included in Appendix V* of this report.

Tide gages were installed and maintained by RAINIER personnel at Dundas Bay, Inside (945-2648) and at Inian Cove, Inian Island (945-2629). The control station was Sitka, Alaska (945-1600). Opening levels were completed by Pacific Operation Section personnel on June 9, 1991 in accordance to Change No. 1. Closing levels were completed by RAINIER personnel on November 10, 1991.

Estimated real-time tides were created for DN 294-296 to establish the accuracy of predicted tides for Dundas Bay. This was done by comparing raw digital tide data from the Dundas Bay, Inside station (945-2648) with predicted tides for Sheet H's (H-10408) geographic area using LOTUS 1-2-3 graphics. A copy of the graphs are included in Appendix V*. The graph shows a potential difference between real-time and predicted of 0.6 meters, with the greatest variation occurring at times of high and low tides.

The station descriptions, field tide records, and Field Tide Notes have been forwarded to N/OMA1212 in accordance with HSG 50 and FPM 4.3. Requests for approved tides have been forwarded to N/OMA12. Copies of the Field Tide Notes and the request for approved tides are included in Appendix V. *